DN GSIE 8803US Amendment Dated December 6, 2004 Reply to Office Action of September 8, 2004

DESCRIPTION OF THE PREFERRED EMBODIMENT

Please replace paragraph 17 with the following paragraph.

In operation, the control device moves the pintle 21 to a raised position allowing the exhaust gas stream to flow through the intake pipe 9. As the exhaust gas stream flows through the intake pipe 9, it heats the afterburner 1 to a temperature high enough to burn the large particles 23 entrained in the exhaust gas stream. A typical exhaust gas stream can have a temperature range anywhere from ambient to 1300°F and carbon particles in the exhaust gas stream will burn at a temperature of about 900°F. However, other particles may have other burn temperatures. The afterburner 1 captures large particles contained in an exhaust gas stream and burns the captured particles using conductive heat. When the exhaust gas stream is at a temperature of at least 900°F and the EGR valve 3 is open, the exhaust gas stream continuously heats the afterburner 1 so that the afterburner 1 continuously burns the large carbon particles 23 it captures.